CLAIMS

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1. A wiring network for a structure having a composite fabrication assembly made of a plurality of layers of composite materials for connecting components outside of the structure for sending and receiving transmittable information between the components, the wiring network

comprising:

a. a plurality of conductive conduits placed between layers of the assembly, each having opposite ends;

b. a first gateway connector attached to one end of each conduit;

c. a second gateway connector attached to the other end of each conduit; and

d. a controller for selecting a conduit for selecting and directing the transmittable information over selected conduits.

2. The wiring network of claim 1, further including multiple component specific conduits between the gateways and a specific component.

3. The wiring network of claim 1, wherein the plurality of conduits comprise electrical wires.

4. The wiring network of claim 1, wherein the plurality of conduits comprise optical fibers.

5. The wiring network of claim 1, wherein each of said gateways is a bus.

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6. The wiring network of claim 1, wherein each gateway is placed between layers of the assembly with the respective conduit end attached to the gateway within the layers, the gateway further including a terminal for connecting a component to the gateway externally of the layers.

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7. The wiring network of claim/1, wherein said controller is a programmable server.

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8. The wiring network of claim 7, wherein multiple conduits between gateways are associated with each externally connected component and wherein the server is adapted for selecting

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3 4 16. The wiring system of claim 15, further including a cockpit with the controller located in the cockpit and the component located outside of the cockpit.